

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,637	03/17/2004	Soryu Nakayama	L7016.04103	1686
	7590 02/21/200 VIS MILLER & MOSI	EXAMINER		
1615 L STREET		LEE, CYNTHIA K		
SUITE 850 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			1745	
			·	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	NTHS	02/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

1	/
' レー	

`	Application No.	Applicant(s)				
	10/801,637	NAKAYAMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cynthia Lee	1745				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 29 No	ovember 2006.					
	action is non-final.					
3) Since this application is in condition for allowan		esecution as to the merits is				
· · · · · · · · · · · · · · · · · · ·	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.						
4a) Of the above claim(s) <u>4-7</u> is/are withdrawn f	rom consideration					
5) Claim(s) is/are allowed.	Tom Concideration.					
6)⊠ Claim(s) <u>1-3</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine						
10) ☐ The drawing(s) filed on 17 March 2004 is/are: a	·	by the Evaminer				
Applicant may not request that any objection to the	, , , , , , , , , , , , , , , , , , , ,	*				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<u> </u>	priority under 25 U.S.C. & 110(a)	(d) or (f)				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	s have been received					
 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in this National Stage 3. Stage 3. Stage 3. Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	·	·				
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/9/06,1/4/06.	5)					
S Patent and Trademark Office						

Election/Restrictions

Applicant's election with traverse of Group I in the reply filed on 11/29/2006 is acknowledged.

The traversal is on the ground(s) that there is a sufficient interrelationship between the two groups of claims to warrant examination in a single application and that a complete search would cover all the claims and thus there would be no undue burden on the patent office in examining all the claims in a single application.

In response, to provide evidence of undue burden on the Examiner, MPEP 808.02 states that for related but distinct inventions, undue burden exist if one or more of the following can be shown: A) separate classification, b) separate status in the art if inventions are classifiable together, or c) a different field of search is shown even if the inventions are classifiable together. The Examiner has shown in the previous restriction requirement that the two groups of invention are separately classified which meets the undue burden requirement as set forth in the MPEP.

The requirement is still deemed proper and is therefore made FINAL.

Priority

Acknowledgement has been made of applicant's claim for priority under 35 USC 119 (a-d) or (e). The certified copy has been filed on 3/17/2004.

Information Disclosure Statement

The Information Disclosure Statement (IDS) filed 3/9/2006, 1/4/2006, and 3/17/2004 have been placed in the application file and the information referred to therein has been considered.

Application/Control Number: 10/801,637

Art Unit: 1745

Drawings

The drawings received 3/17/2004 are acceptable for examination purposes.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kasahara (JP 2001-291509).

figaride
Kasahara discloses a nickel metal hydraside battery comprising a negative

1)2/al 07

electrode manufactured by filling or coating support body with a paste whose main component is powder of an alloy for hydrogen storage wherein the surface of the hydrogen storage alloy negative electrode is coated with a solution in which a water repellant fluororesin is mixed with an organic solvent and the fluororesin is made to be in a dispersion state in the organic solvent, while giving ultrasonic refractions. (Refer to Kasahara's Abstract, claims 1-6) Kasahara further discloses that the amount of fluororesin powder applied to the front face of a hydrogen storing metal alloy negative electrode is a nickel hydrogen battery which is 0.10-2.0 mg/cm2 (applicant's claim 3).

Art Unit: 1745

The Examiner notes that the limitation "single particle state" in claim 1 is met by a process in which the fluororesin powder is mixed and dispersed in ultrasonic mixing as supported by the Specification pg 14.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kasahara (JP 2001-291509) as applied to claim 1 above.

Kasahara discloses all the elements of claim 1. Kasahara discloses that the fluororesin powder size is in the range of 5-100 um (see Kasahara's claim 5), and does not disclose a particle diameter of not more than 2.0 um. However, Kasahara discloses that the specific surface area of a fluororesin is increased by applying the fluororesin dispersed in an organic solvent onto the negative electrode in the form of a fine powder [0033]. It would have been obvious to one of ordinary skill in the art at the time the invention was made to vary the specific surface area (related to the particle size) for the benefit of increasing the surface area, and hence the reaction sites, of the fluororesin.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia Lee whose telephone number is 571-272-8699. The examiner can normally be reached on Monday-Friday 8:30am-5pm.

Art Unit: 1745

If attempts to reach the examiner by telephone are unsuccessful, the examiner's trainer, Susy Tsang-Foster can be reached on 571-272-1293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Away Lary Leter

ckl

Cynthia Lee

Patent Examiner

SUSYTSANG-FOSTER PRIMARY EXAMINER